IRRIGATION IN MONTANA.

The Wonderful Effect of a Big Water Ditch, as Seen Near Billings.

What Heman Clark's Experiment Has Done for the Yellowstone Valley.

there was here. The winter was milder. There was more snow.

Billings attracted me by the information obtained at Helena, that a good example of the advantages and complete success of irrigation could be found here. It would not be likely to attract a visitor who was looking for towns full of push and drive. There is a great deal more of it than there was in 1883. At that time, when the writer stopped to look at it, there was little here except three or four saloons, a store or two, a few unpainted houses and a premature street car line that began in the prairie at one end of the town and ended in the prairie at the opposite end. There is nothing left of the street car line now but the cars, wrecked upon the bank of the Yellowstone, where they were beached years ago. The rails were torn up and taken away to start another town. The saloons are outnumbered now by the brick and stone buildings, some of which are neat and substantial. As usual in western towns, the bank is the best building in the place. That building of one kind has been pushed beyond the needs of Billings is plain. There are many vacant stores, which have been occupied. There is not, however, a sufficient number of dwellings for the population, for a man who had been trying to rent one told me that he was compelled to occupy a second story over a store, or else give up trying to get a tenement. store, or else give up trying to get a tene- equally dry, but of a very distinctly gree

where, did as an experiment, and where did as an experiment, and where did as an experiment, and equal acrossless. It is not easy to find out the traction have beed in Montana or Dekota. At a found the Rev. B. F. Shnart, we for the foundation of the country, and are the same time is to give to the silver produced between the same time is to give to the silver produced between the same time is to give to the silver produced between the same time is to give to the silver produced as its more of the factor of the fact

water, perhaps in the prism. Through this it ran until diverted by gates set to swing it across the heads of fields of different areas. By setting up across the lesser By setting up canvas aprons in the lesser ditches the water was raised above the level of the field, and then it flowed across the field toward the distant river so long as the overflow was maintained. When there were variations from grade the difficulty would be overcome by carrying the water were variations from grade the difficulty would be overcome by carrying the water to a new point of distribution in a ditch at a higher level. As the Yellowstone never falls, the supply of water has always been abundant. The river is tapped too far from the mountains to expose it to any danger from spring freshets, of which there has been none since the ditch was built. The warm weather of spring comes earlier nearer to the headwaters than it does near Billings, and it approaches slowly.

As the first example of what a prairie that was five years ago an uncertain grazing

Plenty of Land Left for the Settler, Where
He May be Sure of His Crops
Every Year.

E. G. Dunnell, the correspondent of the New York Times, whose letter on Helena was published in The Independent last Sunday, seems not only to have looked the cities over with a critical eye, but likewise the country. In a letter under date of Billings, he thus touches on the irrigation question:
Go where you may in the west, within a tract bounded on the east by the western boundary of Minnesota, on the north by the international boundary line, on the west by the Rocky mountains, and on the south by the line of the Union Pacific railroad, the burden of the agriculturists' speech is a prayer for irrigation. The farmers in some parts of the large area indicated have not all been equally unfortunate this year. Many of them have been sadly, perhaps fatally, injured for two or three years by fatally injured for two or three years by fatally, injured for two or three years by fatally in your the mover. It was a fined of fifty acres of alfalfag ready for the mower. It was a fined of fifty acres of alfalfag ready for the mower. It was a fined of fifty acres of alfalfag ready for the mower. It was a field of fifty acres of alfalfag ready for the mower. It was a field of fifty acres of alfalfag ready for the mower. It was a field of fifty acres of alfalfag ready for the mower. It was a field of fifty acres of alfalfag ready for the mower. It was a field of fifty acres of alfalfag ready for the mower. It was a field of fifty acres o

parts of the large area indicated have not all been equally unfortunate this year.

Many of them have been sadly, perhaps fatally, injured for two or three years by drought, blight, or by both excessive cold and scorching heat during one crop season. Against the dangers to be feared from unusual cold they can protect themselves and their stock. Only to a small proportion of the millions of farmers is it at present practicable to guard against a rainless season of six or seven months, during which the hot south winds will blow for a few days with such fervor as to kill the grain in blossom, leaving acres upon acres of it to wave mockingly in the face of the farmer, who has pledged his land and his home and even his pigs and his hens to the moneylender to be able to get the seed in the ground. Parts of the northwest, in Washington, in Oregon, and beyond Helena, in the Teton and Milk river valleys, claim exemption from the drought that has now for several years come with horrible regularity to discourage and ruin many of the Dakota farmers. Whether they will be able to raise cereals upon the bench lands from which they have reaped them this year, and to do it season after season witnout irrigation, remains to be proved. They believe that they can. In the vicinity of Chinook, far to the east of Helena, and almost due north of Billings, wheat and oats have been raised this season, and very satisfactorily. But there was rain later at Chinook than there was here. The winter was milder. There was more snow.

Billings attracted me by the information, obtained at Helena, that a good example of the skin and bones of animals that had been compelled to pick up a living on the skin and bones of animals that had been compelled to pick up a living on the same.

sompelled to occupy a second story over a store, or else give up trying to get a tenement.

When Billings was started, and at the time that it was expected to become a great town, Mr. Heman Clark was "in it" pretty deep. It is common to hear people in Billings denounce Mr. Clark. He may be entitled to very severe censare, but whatever is purpose was he did one thing for the lace that promises to be of greater and tore permanent value to it than the contraction of the horse railroad or the introction of the electric light in its streets. "cut a ditch, beginning at the head of the dof the Yellowstone valley in which lings lies, and carried it for about thirty-ip miles along the rim rock bluff at the h. dissclarging it again into the Yellowstone will be stored in the store where all discovers a serial across ravines. They were expensive serial forms the dich at the wast was end across ravines. They were expensive serial forms the dich at the west was two below the bed of the Yellowstone. Wip eriver was let into it there was at only and the constructed with the west was two below the bed of the Yellowstone. Wip eriver was let into it there was at only and the west yellow store ward even for the store were leaded to the store were

NOT AN IMPARTIAL MAN.

The Denver Sheriff Deprived qf One of the Duties of His Office

DENVER, Oct. 19 .- A sensation was created in the district court yesterday evening when the state's attorney filed an affidavit before Judge Decker alleging that so long as Sheriff Weber or any of his deputies were allowed to summon veniremen, or have anything to do with the case of James and Charles Conners, of this city, who, with Jim Marshall, of Kansas City, are now on trial, charged with conspiracy to rob the Denver & Rio Grande express, the people could not get an impartial trial, for the reason that the officers favored the case of the defendants. The affidavit also asked the appoint ment of others to act instead of the sheriff and his deputies. On convening court this afternoon the application was granted and L. M. Cantrell and John L. Daily were ap-pointed to act in the future proceedings in the case.

The use of calomel for derangements of the liver has ruined many a fine constitution. Those who, for similar troubles, have tried Ayer's Pills testify to their efficiency in thoroughly remedying the malady, with out injury to the system.

Spokane Falls New Line.

The Union Pacific Railway, having completed its line to Spokane Falls, Washington territory, is running its trains direct to that point, thus forming the most desirable route from the East on account of its Pullman Palace sleeping cars, Pullman Dining man Palace sleeping cars, Pullman Dining cars and free Pullman Colonist Sleepers.

Spokane Falls is situated in the Palouse country and is the distributing center for a section of the Northwest, the resources of which are unlimited. As an illustration: 50,000 bushels of wheat have been raised from 1,000 acres of land. Another feature of the country greatly conducive to the raising of crops, is the rainless harvests, no rain falling while the crops are being harvested.

Many desirable farms may yet be had in Many desirable farms may yet be had in this remarkable productive region on reas-onable terms, and a more favorable oppor-tunity for procuring a farm cheap will not soon present itself.

For pamphlets descriptive of the country, or for rates, time tables or maps pertaining to the Union Pacific Railway apply to your nearest ticket agent, any agent of this com-pany, or the wedersigned.

pany, or the undersigned. C. S. Lomax, Gen. Pass. Agt.

A. E. VEAZIE, Pass. Agent.

When Baby was sick, we gave her Castoria When she was a Child, she cried for Castoria When she became Miss, she clung to Castoria, When she had Children, she gave them Castoria

The Verdict Unanimous. W. D. Suit, druggist, Bipus, Ind., testifies: "I can recommend electric bitters as the very best remedy. Every bottle sold has given relief in every case. One man took six bottles, and was cured of rheumatism of ten years' standing." Abraham Hare, druggist, Bellville, Ohio, affirms:
"The best selling medicine I have ever handled in my twenty years' experience, is electric bitters." Thousands of others have added their testimony, so that the verdict is unanimous that electric bitters do cure all diseases of the liver, kidneys or blood; only a half dollar a bottle at R. S. Hale & Co.'s drugstore.

Do you suffer with catarrh? You can be cured if you take Hood's Sarsaparilla, the great blood purifer. Sold by all druggists.



ombines the juice of the Blue Figs of alifornia, so laxative and nutritious, with the medicinal virtues of plants snown to be most beneficial to the FECT REMEDY to act gently yet promptly on the

KIDNEYS, LIVER AND BOWELS Clearacta System Effectually, PURE BLOOD.

REFRESHING SLEEP, **HEALTH and STRENGTH**

Naturally follow. Every one is using it and all are delighted with it. Ask your struggist for SYRUP OF FIGS. Manufactured only by the

CALIFORNIA FIG SYRUP CO. SAN FRANCISCO, CAL.

LEGAL NOTICES. FQUALIZATION OF CITY ASSESSMENT.—
Notice is hereby given that the assessment of property for city taxes for the current year has been completed, and that all persons feeling themselves aggrieved thereby shall appear before the city council, sitting as a board of equalization, on Tuesday, Oct. 22, 1889, at 230 p. m.

8. R. DOUGLAS, City Assessor.

Helena, Mont., Oct. 16, 1889.

WE ARE SOLE AGENTS

FOR THE

FINEST RESIDENCE PROPERTY

IN OR NEAR HELENA.

BROOKE ADDITION, BRADFORD ADDITION. HIGHLAND PARK, HOTEL and SEYMER PARKS, and WALLACE'S SUBDIVISION SYNDICATE ADDITION.

And have the Inside on ALL of the West Side Residence Property. If you want a LOT or a BLOCK, or a DOZEN LOTS, or a DOZEN BLOCKS, we can Accommodate you.

We have piped the AMES, BROOKE, BRAD-FORD and BELLEVUE additions for water, and are now Frading HAUSER BOULEVARD, which Will be the Finest Drive in the City, and the Shortest Road to the HOTEL BROADWATER.

Remember we are Headquarters for West Side Property, and call on or address

PORTER, MUTH & COX Gold Block, Helena.

HELENA. PAID JN CAPITAL - - \$350,000.

Merchants National Bank

FIRST NATIONAL BANK

OF HELENA.

Pioneer National Bank of Montana.

Organized in 1866.

Designated Depository of U.S.

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MONTANA

Helena, Mont

UNITED STATES DEPOSITORY.

DIRECTORS:

\$100,000

CAPITAL (PAID IN)

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SURPLUS AND PROFITS - 75,000 L. H. HERSHFIELD, President. A. J. DAVIDSON, Vice-President. AARON HERSHFIELD, Cashier.

BOARD OF DIRECTORS THOMAS CRUSE, S. S. HUNTLEY, W. D. NICHOLAS. A. J. DAVIDSON. MOSES MORRIS. L. H. HERSHFIELD, AARON HERSHFIELD, J. SWITZER.

Collections Receive Prompt Attention. Purchase Gold and Silver Bullion, Gold Dust and County Securities.

Interest Allowed on Deposits Left for a Specified Time.

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SECOND NATIONAL BANK

HELENA.

PAID UP CAPITAL, - \$75,000 SURPLUS AND PROFITS, 20,000 Interest Allowed on Time Deposits.

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FINE FURS. Fred Stolba Fur Co.

178, WABASH AVE. CHICAGO.

Seal Garments in New and Exclusive desgns, and Perfect in Fit. Orders and measures left at the Helena Corset and Kid Glove Parlors will receive Prompt and Personal Attention.

BUTTE CITY, Montana.

\$3,500 buys a ledge of hematite iron, fluxing, lime stone and water right, three quarters of a mile from railroad. \$8,500 buys 440 acres of fenced land, and all appurtenances for sheep growing business, with right of the eldest and best range in Montana, twenty-five by sixteen miles in extent. Also, if wanted, 3,500 head of sheep at \$2.50 will go with the range. Wood, water, grass and shelter plentiful.

\$1,100 buys an undivided four-sixths interest in 320 acres of coal land by a railroad near Butte, containing three distinct veins of good coal, respectively 2 feet, 4 feet and 12 feet in thick-

Also, fine building propositions in the business center of Butte. For sale by EVANS, NICHOLS & CO.,

Real Estate & Mining Brokers. 62 EAST BROADWAY, BUTTE, M. T. WENDEL & STEIN'S

Francisco Bakery. Formerly M. Reinig's.

First-Class Quality of

Bread, Pies and Cakes Promptly Delivered

To any part of the city on short notice. No. 148 Bridge street, one door above M. Reinig's. Branch Store at Cor. Sixth Avenue and Park, The reason why Acker's is warranted, is because it is the best Blood Preparation known. It will positively cure all Blood Diseases, purifies the whole system, and thoroughly builds up the constitution. Remember, we guarantee it.

Children Cry for Pitcher's Castorie